

1-HEPTANOL

Material Safety Data Sheet

Mallinckrodt Chemical Inc.

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Emergency Telephone Number
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Effective Date: 02-09-87 Supersedes 09-01-85

PRODUCT IDENTIFICATION:

Synonyms: Heptyl alcohol; n-heptanol

Formula CAS No.: 111-70-6

Molecular Weight: 116.20

Hazardous Ingredients: 1-Heptanol

Chemical Formula: C7H16O

PRECAUTIONARY MEASURES

WARNING! COMBUSTIBLE. MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION.

Do not breathe vapor.

Avoid contact with eyes, skin and clothing.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

Keep away from heat, sparks and flame.

EMERGENCY FIRST AID

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, call a physician immediately.
SEE SECTION 5.

Physical Data

SECTION 1

Appearance: Colorless liquid.

Odor: Fragrant.

Solubility: Slightly soluble in water.

Boiling Point: 176 C (349 F)

Vapor Density (Air=1): No information found.

Melting Point: -36 C (-33 F)

Vapor Pressure (mm Hg): No information found.

Specific Gravity: 0.822

Evaporation Rate: No information found.

Fire and Explosion

SECTION 2

Information-----
Fire:

Combustible Liquid. Flash point 74 C (165 F)

Explosion:

Above the flash point, explosive vapor-air mixtures may be formed.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or

carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Reactivity Data

SECTION 3

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizing agents, acid chlorides, acid anhydrides.

Leak/Spill Disposal Information

SECTION 4

Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Contain and recover liquid when possible. Collect as hazardous waste and atomize in a suitable RCRA approved combustion chamber, or absorb with vermiculite, dry sand, earth or similar material for disposal as hazardous waste in a RCRA approved facility. Do not flush to sewer!

Ensure compliance with local, state and federal regulations.

Health Hazard Information

SECTION 5

A. Exposure/Health Effects

Information on the human health effects from exposure to this substance is limited.

Inhalation:

Inhalation of vapor or mist is irritating to the mucous membrane and upper respiratory tract.

Ingestion:

No information found, but compound should be handled as a potential health hazard.

Skin Contact:

Causes skin irritation.

Eye Contact:

Causes eye irritation.

Chronic Exposure:

No information found.

Aggravation of

Pre-existing Conditions:

No information found.

B. FIRST AID

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

If swallowed, call a physician immediately.

Skin Exposure:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Exposure: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

TOXICITY (RTECS, 1986)

No LD50/LC50 information found relating to normal routes of occupational exposure.

Occupational Control Measures SECTION 6

Airborne Exposure Limits: None established.

Ventilation System: A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

Personal Respirators (NIOSH Approved) For conditions of use where exposure to the vapor is apparent, a half mask chemical cartridge respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

Storage and Special Information SECTION 7

Protect against physical damage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. Storage and use areas should be No Smoking areas.

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Addendum to Material Safety Data Sheet

REGULATORY STATUS

Hazard Categories for SARA Section 311/312 Reporting

Acute	Chronic	Fire	Pressure	Reactive
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X		X		

SARA EHS

SARA Sec. 313
Chemicals

CERCLA

RCRA

					Page 4	
Product or Components	Sec. 302	Name	Chemical	Sec.103	Sec.	
of Product:	RQ TPQ	List	Category	RQ lbs	261.33	
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1-HEPTANOL (111-70-6)	No No	No	No	No	No	

SARA Section 302 EHS RQ:
Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.

SARA Section 302 EHS TPQ:
Threshold Planning Quantity of Extremely Hazardous substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:
Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

CERCLA Sec. 103:
Comprehensive Enviromental Response, Compensation and Liability Act (Superfund) Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4

RCRA:
Resource Conservation and Recovery Act. Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33

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